LMA District Cover Sheet

Spring 2019 Levee Inspection Results

Yolo County Department of Natural Resources

	Spring (March - May)	Summer ** (June - August)	Fall (September - November)	Winter ** (December - February)
† Overall LMA Rating (Fall Only)				
	** Non-receipt of Summ Reports may effect o			
† SPRING INSPECTIONS: Overall maintenance deficiencies are rate	e ratings are not deterr d using the same crite			ual maintenance
FALL INSPECTIONS: The overall maintena within the attached u			tion and maintenance de ended to be an indiction o	
Comments				

Unit Cover Sheet

Spring 2019 Levee Inspection Results

Yolo County Department of Natural Resources

Waterway	Bank	Unit Miles
Unit No. 01 Right Bank Cache Creek	Right	0.59

	Spring (March - May)	Summer (June - August)	(September - November) Fall	Winter (December - February)
Unit Maintenance Rating (Fall Only)				
Date of Inspection	3/29/2019 - 3/29/2019			
DWR Inspector	Zach Jojola			
Accompanied By	Casey Leibler o County Department of Natural Resource			
	Thomas Engler _{MBK}			

Summer & Winter Inspections

The Local Maintaining Agency (LMA) is responsible for summer and winter inspections. The LMA is required to submit a report regarding summer and winter inspections to the California Department of Water Resources (DWR).

DWR must be informed on the:

- a) completion of the inspection
- b) any changes other than the results of normal maintenance
- c) corrections to deficiencies noted in this report

If additional items are noted, further documentation of those items must also be submitted.

The LMA should submit this information to DWR using the LMA web application tool available at:

http://cdec.water.ca.gov/lma.html

If the LMA is unable to submit information on this webpage, please contact DWR for assistance.

The LMA should submit the information and any associated documentation by September 30 for summer inspections and March 31 for winter inspections.

Levee Inspection Report By Mile - Spring 2019

Yolo County Department of Natural Resources

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 01 Right Bank Cache Creek	Right	0.59	03/29/2019 03/29/2019	Zach Jojola

LM Ctt		Rating **	Α	Issue No.		5			
LM Start		Rating	А	issue ivo.		<u> </u>			
LM End		Issue Type +	Ma	Location *		N/A			
Category	Earthen L	evee		GPS La	atituc	de/Longitude			
Category				Start		End			
Operations & Maintenance				0		0			
пеш	Manuals				0		0		
DWR ID DWR_NA0021_01_s _ 2012_5									
Comment Code									
Inspector Comment									
Yolo County has copies of the O&M manual.									

No Photos

Issue No. Rating ** LM Start 11 Location * Issue Type + Ма N/A LM End GPS Latitude/Longitude Earthen Levee Category **Emergency Supplies &** Item Equipment DWR ID DWR_NA0021_01_s _ 2018_11 Comment Code

No Photos

Inspector Comment

Yolo County OES maintains a stockpile of flood response material.

LM Start		Rating **	Α	Issue No.		12	
LM End		Issue Type +	Ma	Location *		N/A	
Category	Earthen L	evee		GPS La	atituc	le/Longitude	
Calegory		•	End				
Item	Flood Pre	paredness &	Training		0		0
пеш					0		0
DWR ID	DWR_NA0	021_01_s _ 201	2_12				
		Comn	nent Cod	le			
		Inspecto	or Comm	nent			

No Photos

Yolo County OES has a written response plan and response training.

* Location	** Rating		+ Issue Type
LS: Land Side N/A: Not Applicable WS: Water Side CR: Crown	A : Acceptable M : Minimally Acceptable U : Unacceptable	N : Not Inspected/Rated C : Corrected A/W : Acceptable but Monitor & Maintain	Ma : Maintenance Deficiency Ob : Design & System Obsolescence En : Enforcement

Levee Inspection Report By Mile - Spring 2019

Yolo County Department of Natural Resources

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 01 Right Bank Cache Creek	Right	0.59	03/29/2019 03/29/2019	Zach Jojola

LM Start	0.03	Rating **	U	Issue No.		23
LM End	0.07	Issue Type +	Ma	Location *		WS
Category Earthen Levee				GPS Latitude/Longitude		
Calegory				Start		End
Item	Vegetatio	/egetation			2 °	38.721020 °
item				-121.81042	1°	-121.809792 °
DWR ID DWR_NA0021_01_s _ 2017_23						

Comment Code

V2 : Remove the wild growth other than native grasses from the levee slopes.

Inspector Comment

There is thick vegetation on waterside slope blocking visibility.

LM Start	0.03	Rating **	U	Issue No.	23 (cont)
LM End	0.07	Issue Type +	Ma	Location *	WS



Wild vegetation on the waterside levee slope, Spring 2018.

Photo 2 of 2: SP_2019_NA0021_351_23_20190304_00017.jpg



Wild vegetation on waterside levee slope, Spring 2017.

LM Start	0.03	Rating **	М	Issue No.		15		
LM End	0.03	Issue Type +	Ma	Location *		WS		
Category	Earthen L	evee		GPS La	atitud	e/Longitude		
Calegory		Start		End				
Item	Encroachments			38.7208	95°	38.720895 °		
item				-121.810408 °		-121.810408 °		
DWR ID DWR_NA0021_01_f _ 2015_15								
		Comn	nent Cod	le				
DE : Debri	s							
Inspector Comment								
Concrete p	oipes are lo	ocated on the	watersic	le slope.				
	Constitute pipes and installed on the material de diopoli							



View of the debris on the waterward side of the levee. Fall 2015.

Levee Inspection Report By Mile - Spring 2019

Yolo County Department of Natural Resources

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 01 Right Bank Cache Creek	Right	0.59	03/29/2019 03/29/2019	Zach Jojola

LM Start	0.09	Rating **	U	Issue No.		6		
LM End	0.13	Issue Type +	Ma	Location *		WS		
Earthen Levee			GPS La	titud	le/Longitude			
Category	egory					End		
Item	Vegetatio	n		38.72108	86 °	38.721222 °		
пеш				-121.8094	51 °	-121.808650 °		
DWR ID	DWR_NA0021_01_f _ 2018_6							

Comment Code

V2: Remove the wild growth other than native grasses from the levee slopes.

Inspector Comment

Photo 1 of 1: SP_2019_NA0021_351_6_20190304_00002.jpg



View of the vegetation on the waterside slope. Fall 2018.

LM Start	0.14	Rating **	A/W	Issue No.		9		
LM End	0.14	Issue Type +	Ob	Location *	CR			
Catagony	Earthen L	evee	GPS La	atitud	e/Longitude			
Category				Start		End		
Item	Cracking		38.7212	60°	38.721260	0		
item	-121.808496 ° -121.8084						0	
DWR ID DWR NA0021 01 f 2018 9								

Comment Code

CR1: Monitor and have inspected by geotechnical engineer.

Inspector Comment

There is longitudinal cracking on the crown and waterside slope. There is potential for sloughing within the crown. Recommend monitoring.

Photo 1 of 1: SP_2019_NA0021_351_9_20190304_00006.jpg



View of the longitudinal cracking on the crown and waterside slope. Fall

LM Start	0.19	Rating **	U	Issue No.		16	
LM End	0.19	Issue Type +	Ма	Location *	ı* LS		
Category	Earthen Levee					le/Longitude	
Category	gory					End	
Item	Animal Co	ontrol		38.7215	36°	38.721536°	
пеш				-121.8077	11 °	-121.807711 °	
DWR ID DWR_NA0021_01_s _ 2015_16							

Comment Code

A3: No rodents visible, but rodent burrows visible; need to backfill and compact or grout burrows.

Inspector Comment

Photo 1 of 3: SP_2019_NA0021_351_16_20190424_00021.jpg



View of rodent hole on the landside slope next to power pole. Spring 2019.

* Location	** Rating		+ Issue Type
LS : Land Side N/A : Not Applicable WS : Water Side CR : Crown	A : Acceptable M : Minimally Acceptable U : Unacceptable	N : Not Inspected/Rated C : Corrected A/W : Acceptable but Monitor & Maintain	Ma : Maintenance Deficiency Ob : Design & System Obsolescence En : Enforcement

Levee Inspection Report By Mile - Spring 2019

Yolo County Department of Natural Resources

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 01 Right Bank Cache Creek	Right	0.59	03/29/2019 03/29/2019	Zach Jojola

LM Start	0.19	Rating **	U	Issue No.		16 (cont)		
LM End	0.19	Issue Type +	Ma	Location *		LS		
Category	Earthen L	evee	GPS La	atitud	e/Longitude			
Category				Start		End		
Item	Animal Co	ontrol		38.7215	36°	38.721536°		
пеш	-121.807711 ° -121.80771							
DWR ID DWR_NA0021_01_s _ 2015_16								
Comment Code								

A3 : No rodents visible, but rodent burrows visible; need to backfill and compact or grout burrows.

Inspector Comment

LM Start	0.19	Rating **	U	Issue No.	16 (cont)
LM End	0.19	Issue Type +	Ma	Location *	LS



View of the rodent holes on the landward side of the levee looking downstream. Spring 2016.

Photo 3 of 3: SP_2019_NA0021_351_16_20190304_00008.jpg



View of rodent holes on landside slope. Fall 2016.

LM Start	0.20	Rating **	М	Issue No.	7			
LM End	0.20	Issue Type +	Ма	Location *	LS			
Category	Earthen L	evee	GPS Latitude/Longitude					
Category				Start		End		
Item	Animal Co	ontrol		38.72168	33°	38.721683°		
пеш				-121.80753	32 °	-121.807532°		
DWR ID DWR_NA0021_01_s _ 2016_7								
Comment Code								

A3 : No rodents visible, but rodent burrows visible; need to backfill and compact or grout burrows.

Inspector Comment



Perspective view of the rodent hole on the landward side of the levee looking downstream. Spring 2016.

* Location	** Rating		+ Issue Type
LS : Land Side N/A : Not Applicable WS : Water Side CR : Crown	A : Acceptable M : Minimally Acceptable U : Unacceptable	N : Not Inspected/Rated C : Corrected A/W : Acceptable but Monitor & Maintain	Ma : Maintenance Deficiency Ob : Design & System Obsolescence En : Enforcement

Levee Inspection Report By Mile - Spring 2019

Yolo County Department of Natural Resources

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 01 Right Bank Cache Creek	Right	0.59	03/29/2019 03/29/2019	Zach Jojola

LM Start	0.20	Rating **	М	Issue No.	7 (cont)				
LM End	0.20	Issue Type +	Ма	Location *	LS				
Category	evee	GPS Latitude/Longitude							
Calegory				Start		End			
Item	Animal Co	ontrol		38.72168	33°	38.721683 °			
item				-121.80753	32 °	-121.807532 °			
DWR ID DWR_NA0021_01_s _ 2016_7									
Comment Code									

A3: No rodents visible, but rodent burrows visible; need to backfill and compact or grout burrows.

Inspector Comment





Animal hole is close to the shoulder of the levee. Spring 2016.

LM Start	0.22	Rating **	M	Issue No.		8	
LM End	0.22	Issue Type +	Ma	Location *	on * LS		
Category	Earthen Levee			GPS La	atitud	e/Longitude	
Calegory				Start		End	
Item	Animal Control			38.7218	76°	38.721876 °	
nem				-121.8073	93 °	-121.807393 °	
DWR ID	DWR NAO	021 01 s 201	6.8				

Comment Code

A3: No rodents visible, but rodent burrows visible; need to backfill and compact or grout burrows.

Inspector Comment



View of the rodent holes on the landward side of the levee looking downstream. Spring 2016.

Levee Inspection Report By Mile - Spring 2019

Yolo County Department of Natural Resources

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 01 Right Bank Cache Creek	Right	0.59	03/29/2019 03/29/2019	Zach Jojola

LM Start	0.24	Rating **	М	Issue No.		24
LM End	0.24	Issue Type +	En	Location *		
Category Supplemental				GPS Latitude/Longitude		
Calegory				Start		End
Item	DWR UCIP Field Study			38.722162	°	38.722162°
пеш				-121.807223	3°	-121.807223°
DWR ID	19554					

Comment Code

Inspector Comment

FS_ID:39855 DS_ID:19554 EP_NO: 6790

Repair Type: Non-Urgent Crossing Status: Indicator Found

UCIP Comments: Need to contact owner to determine if crossing is still active and to determine last inspection date. Will need copy of letter showing crossings passed inspection.

FIELD_STRUCT_DESC: 6-inch steel natural gas pipeline through the levee, 4 feet below the crown. Pipe extends from borrow area and under the channel. Bleeder valve on the waterside (WS) bank. Service vault located on the landside (LS) next to access gate. Paved access ramp on the LS slope. (Plans to lower a 6-inch high-pressure gas main crossing Cache Creek authorized under Permit No. 6790, 1969 - Pacific

Gas and Electric Company [PG&E]). [Additional Reference(s): DWR Levee Log, 2004]. FS Date: 4/16/2013

LM Start	0.24	Rating **	М	Issue No.	24 (cont)
LM End	0.24	Issue Type +	En	Location *	



View of landward side near access gate. Gas line marker located on between trees. Line runs parallel to access roadway and through levee.

Photo 2 of 3: UCIP SP 2019 39855 69554.jpg



Service vault located on landward toe near gate access gate.

Levee Inspection Report By Mile - Spring 2019

Yolo County Department of Natural Resources

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 01 Right Bank Cache Creek	Right	0.59	03/29/2019 03/29/2019	Zach Jojola

LM Start	0.24	Rating **	М	Issue No.		24 (cont)
LM End	0.24	Issue Type +	En	Location *		
Category Supplemental				GPS Latitude/Longitude		
Calegory				Start		End
Item	DWR UCIP Field Study			38.72216	2°	38.722162 °
пеш				-121.80722	23°	-121.807223 °
DWR ID	19554					

Comment Code

Inspector Comment

FS_ID:39855 DS_ID:19554 EP_NO: 6790

Repair Type: Non-Urgent Crossing Status: Indicator Found

UCIP Comments: Need to contact owner to determine if crossing is still active and to determine last inspection date. Will need copy of letter showing crossings passed inspection.

FIELD_STRUCT_DESC: 6-inch steel natural gas pipeline through the levee, 4 feet below the crown. Pipe extends from borrow area and under the channel. Bleeder valve on the waterside (WS) bank. Service vault located on the landside (LS) next to access gate. Paved access ramp on the LS slope. (Plans to lower a 6-inch high-pressure gas main crossing Cache Creek authorized under Permit No. 6790, 1969 - Pacific Gas and Electric Company [PG&E]). [Additional Reference(s): DWR Levee Log, 2004].

FS Date: 4/16/2013



View of gas line marker located on levee crown.

LM Start	0.27	Rating **	М	Issue No.		18	
LM End	0.27	Issue Type +	En	Location *		LS	
Category Earthen Levee			GPS Latitude/Longitude				
Category	Category			Start		End	
Item	Encroach	ments		38.72261	5 °	38.722615 °	
item			-121.80695	52 °	-121.806952 °		
DWR ID	D DWR_NA0021_01_s _ 2015_18						
	Comment Code						

EQ: Equipment

Inspector Comment





Photo of equipment near LS toe of the levee. Fall inspection 10/07/2016.

Levee Inspection Report By Mile - Spring 2019

Yolo County Department of Natural Resources

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 01 Right Bank Cache Creek	Right	0.59	03/29/2019 03/29/2019	Zach Jojola

LM Start	0.27	Rating **	М	Issue No.		18 (cont)
						• •
LM End	0.27	Issue Type +	En	Location *		LS
Category	Earthen L	evee		GPS La	atitud	le/Longitude
Calegory				Start		End
Item	Encroachments			38.7226	15°	38.722615 °
item				-121.806952 °		-121.806952 °
DWR ID	DWR ID DWR_NA0021_01_s _ 2015_18					
		Comn	nent Cod	le		
EQ : Equip	ment					
Inspector Comment						



View of equipment on the landward side of the levee looking downstream. Spring 2015.

LM Start	0.27	Rating **	М	Issue No.		22
LM End	0.27	Issue Type +	En	Location *		WS
Catagoni Earthen Levee				GPS La	atitud	e/Longitude
Category			Start		End	
. Encroachments				38.7226	20°	38.722620°
item	-121.806958 ° -121.80					
DWR ID DWR_NA0021_01_f _ 2015_22						
Comment Code						

RA: Ramp

Inspector Comment

There is an unauthorized vehicle ramp by owner on the waterside slope.

LM Start	0.27	Rating **	М	Issue No.	22 (cont)
LM End	0.27	Issue Type +	En	Location *	WS

Photo 1 of 3 : SP_2019_NA0021_351_22_20190304_00013.jpg



Perspective view of the trail on the waterward side of the levee looking downstream. Fall 2015.

Photo 2 of 3: SP_2019_NA0021_351_22_20190304_00014.jpg



View of the trail on the waterward side of the levee. Fall 2015.

* Location	** Rating		+ Issue Type
LS : Land Side N/A : Not Applicable WS : Water Side CR : Crown	A : Acceptable M : Minimally Acceptable U : Unacceptable	N : Not Inspected/Rated C : Corrected A/W : Acceptable but Monitor & Maintain	Ma : Maintenance Deficiency Ob : Design & System Obsolescence En : Enforcement

Levee Inspection Report By Mile - Spring 2019

Yolo County Department of Natural Resources

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 01 Right Bank Cache Creek	Right	0.59	03/29/2019 03/29/2019	Zach Jojola

LM Start	0.27	Rating **	М	Issue No.		22 (cont)	
LM End	0.27	Issue Type +	En	Location *		WS	
Category	Earthen Levee			GPS Latitude/Longitude			
Calegory	Salegory			Start		End	
Item	Encroach	ments	38.72262	20°	38.722620 °		
пеш				-121.80695	58 °	-121.806958 °	
DWR ID	DWR_NA0	021_01_f _ 201	5_22				

Comment Code

RA: Ramp

Inspector Comment

There is an unauthorized vehicle ramp by owner on the waterside slope.

Photo 3 of 3: SP_2019_NA0021_351_22_20190304_00015.jpg



The trail seems to be an access point that leads down to Cache Creek. Fall 2015.

LM Start	0.27	Rating **	A/W	Issue No.	14		
LM End	0.27	Issue Type +	Ma	Location *	WS		
Category Earthen Levee			GPS Latitude/Longitude				
Calegory			Start		End		
Vegetation		38.72263	33°	38.722633 °			
пеш				-121.80693	88°	-121.806938 °	
DWR ID DWR_NA0021_01_s _ 2012_14							
Comment Code							

V4: Elderberries are blocking visibility and flood fight capability.

Inspector Comment

No Photos

LM Start	0.40	Rating **	М	Issue No.		2		
LM End	0.48	Issue Type +	Ma	Location *		LS		
Category Earthen Levee				GPS Latitude/Longitude				
Calegory				Start		End		
Item	Vegetatio		38.7244	70°	38.725567°			
item			-121.8065	65 °	-121.806518 °			
DWR ID DWR_NA0021_01_s _ 2019_2								

Comment Code

V1: Control annual grass and weeds on the levee slopes and easements.

Inspector Comment

No Photos

* Location	** Rating		+ Issue Type
LS: Land Side N/A: Not Applicable	A : Acceptable	N : Not Inspected/Rated	Ma : Maintenance Deficiency
WS : Water Side	M : Minimally Acceptable	C : Corrected	Ob : Design & System Obsolescence
CR : Crown	U : Unacceptable	A/W : Acceptable but Monitor & Maintain	En : Enforcement

Levee Inspection Report By Mile - Spring 2019

Yolo County Department of Natural Resources

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 01 Right Bank Cache Creek	Right	0.59	03/29/2019 03/29/2019	Zach Jojola

LM Start	0.45	Rating **	М	Issue No.		3
LM End	0.45	Issue Type +	Ma	Location *	LS	
Earthen Levee				GPS Latitude/Longitude		
Category			Start		End	
Animal Control			38.725115 °		38.725115°	
Item		-121.806527°		-121.806527°		
DWR ID DWR_NA0021_01_f _ 2017_3						
Comment Code						
A3 : No rodents visible, but rodent burrows visible; need to backfill and compact or grout burrows.						
Inspector Comment						

Photo 1 of 1 : SP_2019_NA0021_351_3_20190304_00001.jpg

Rodent holes on landward hinge point. Fall 2017.